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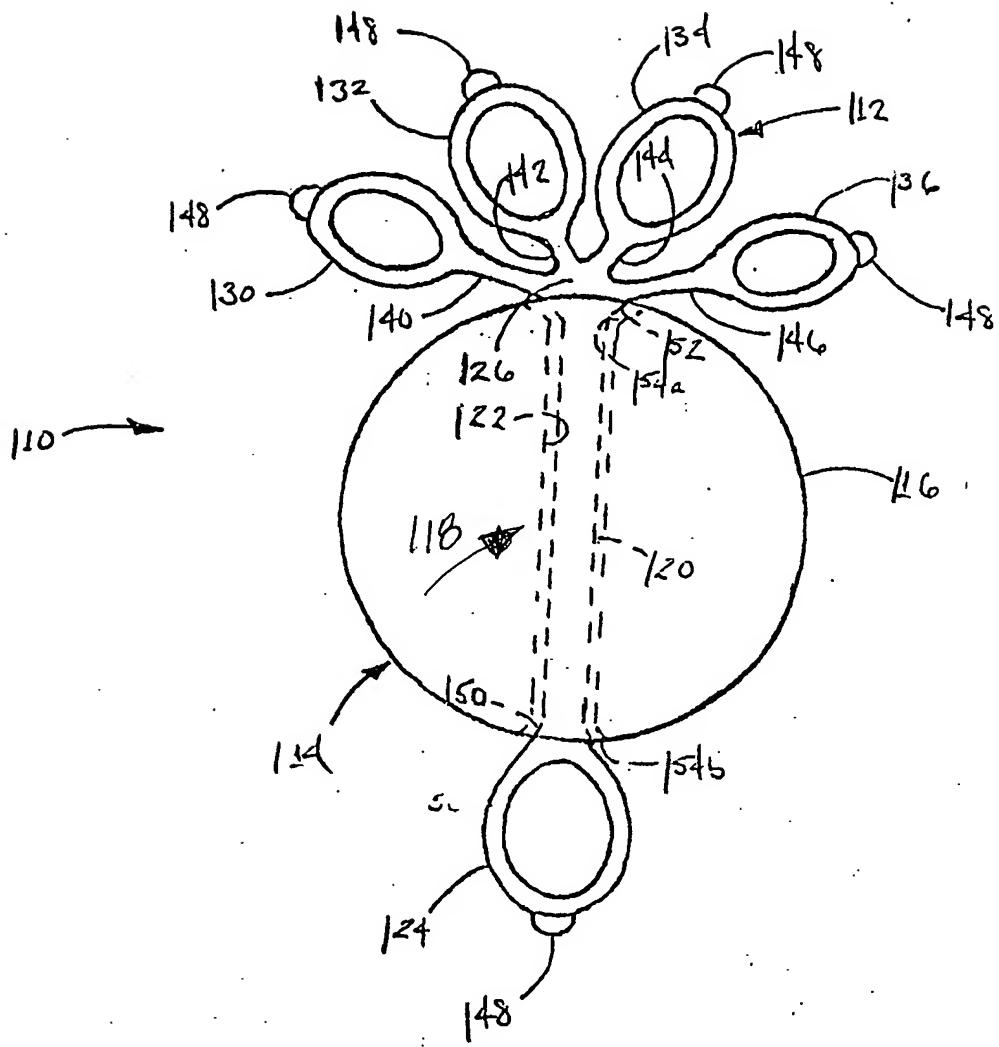


FIG. 1

PRIOR ART

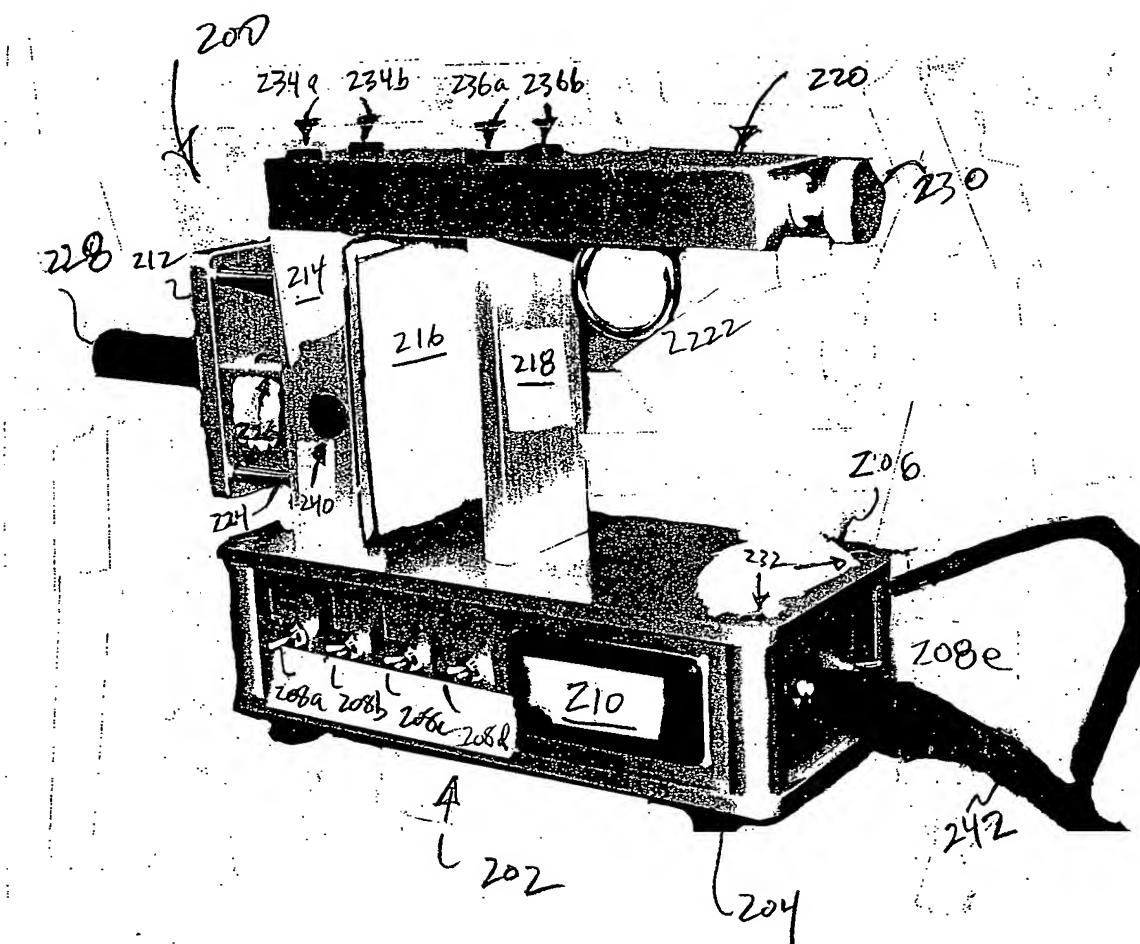


FIG 2A

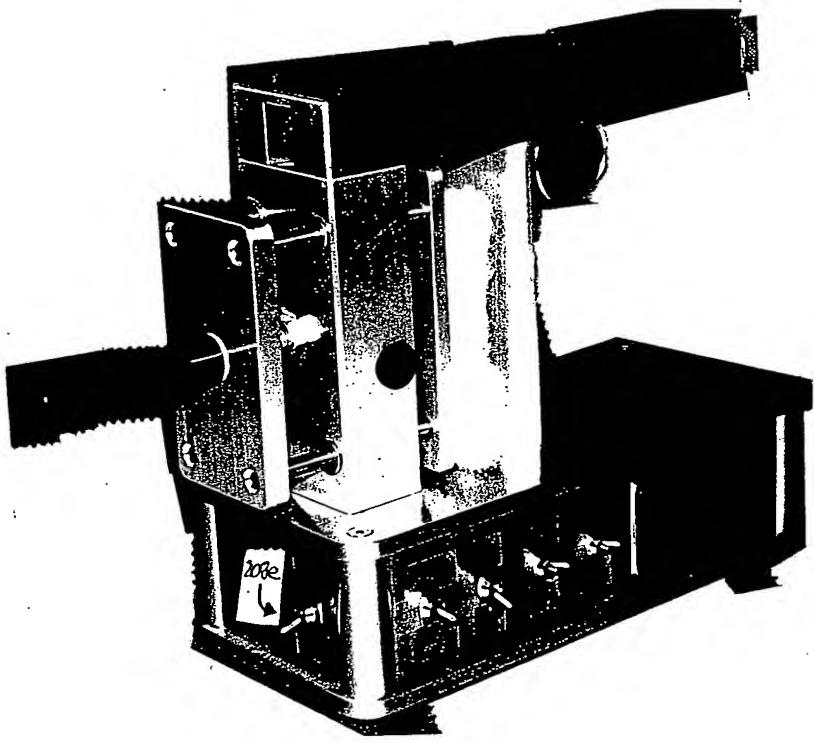


FIG. 2B

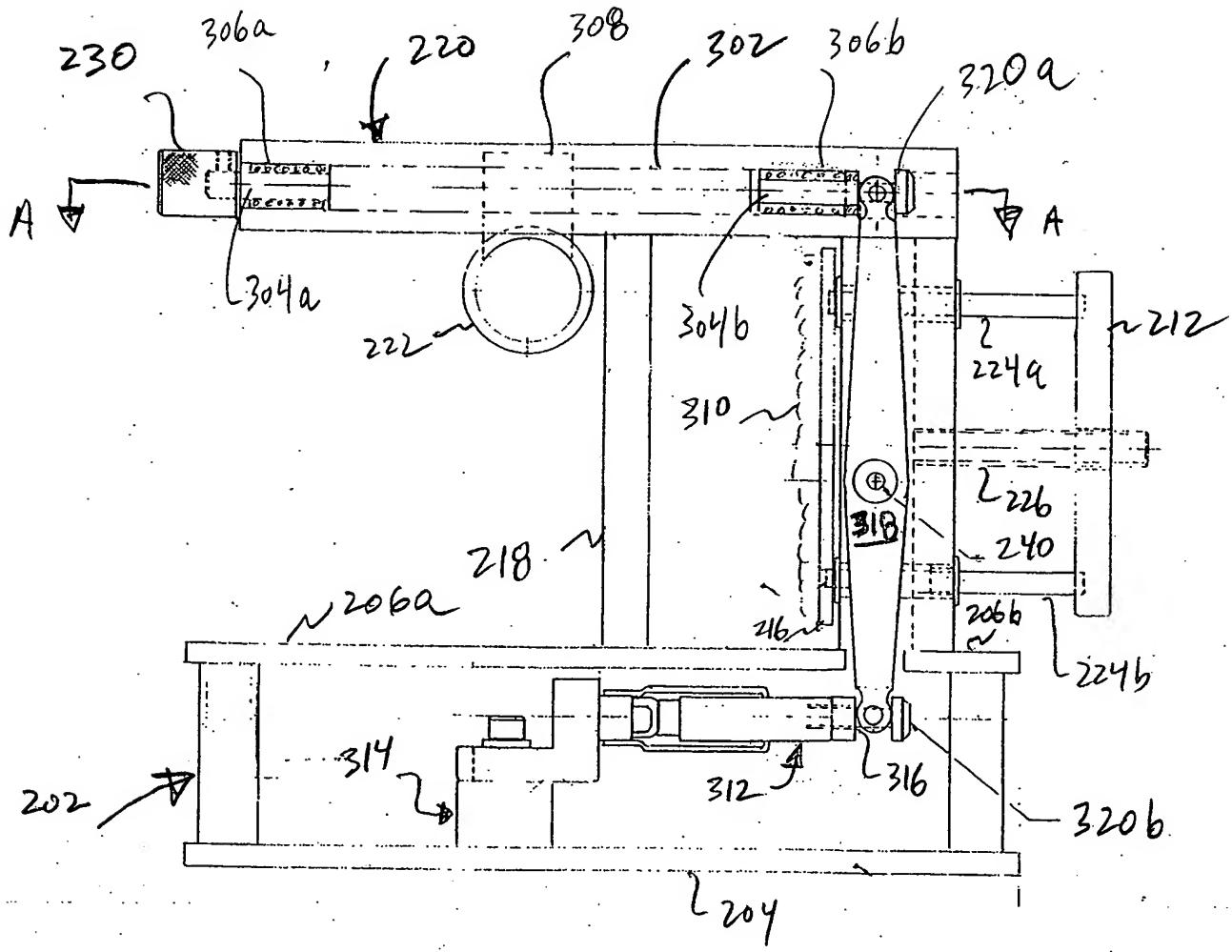


FIG. 3

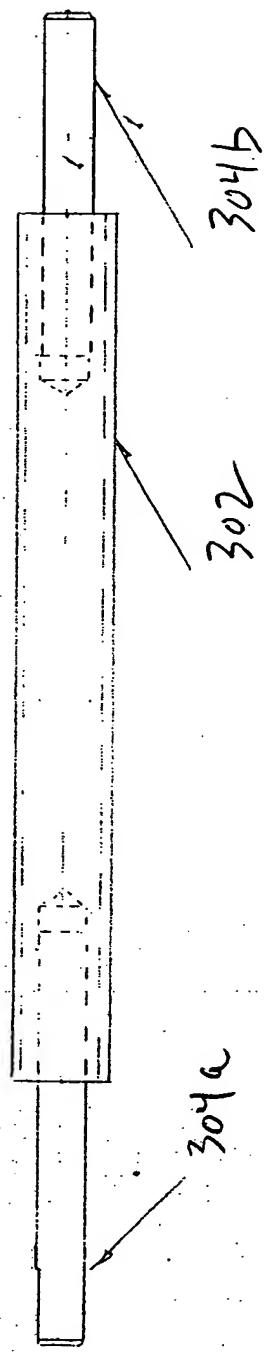


Fig. 4

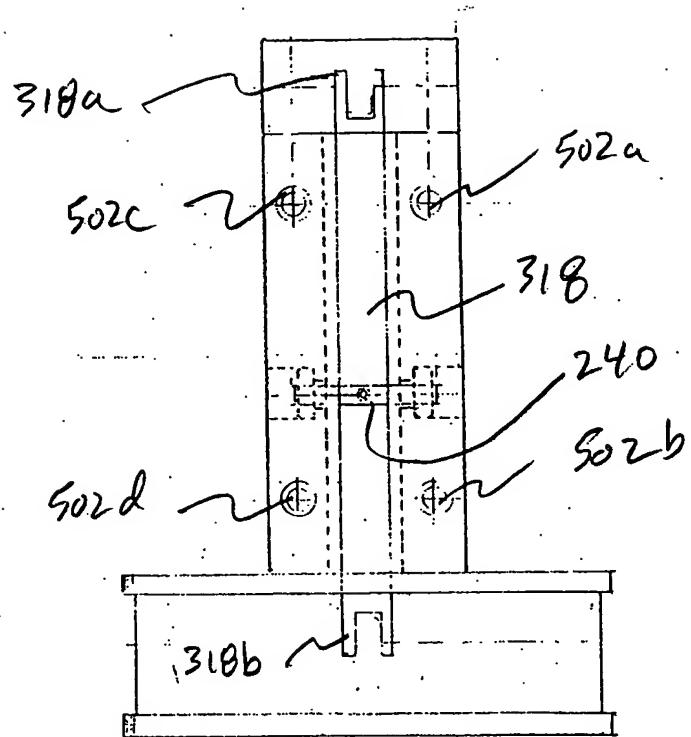


FIG. 5

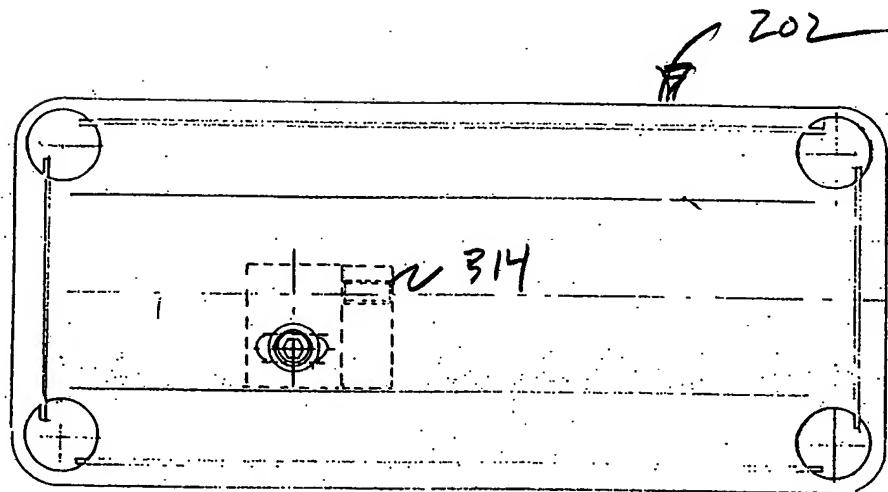


FIG. 6

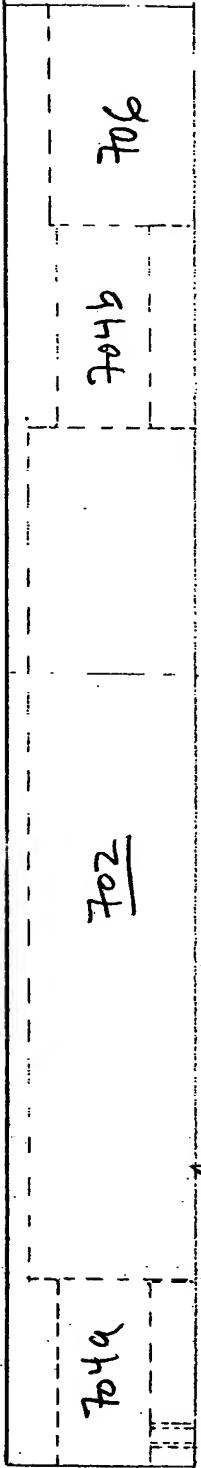


Fig. 7B

220

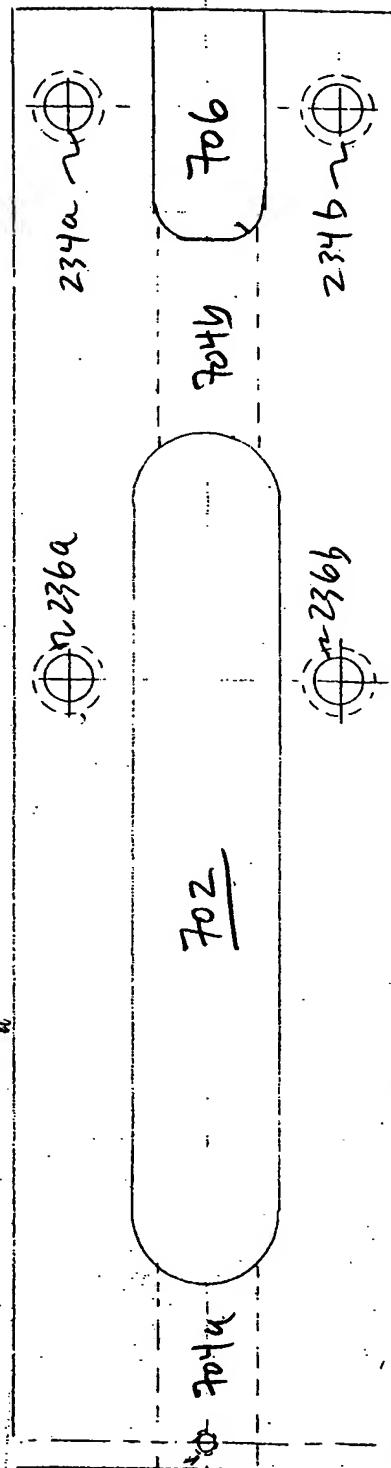


Fig. 7A

220

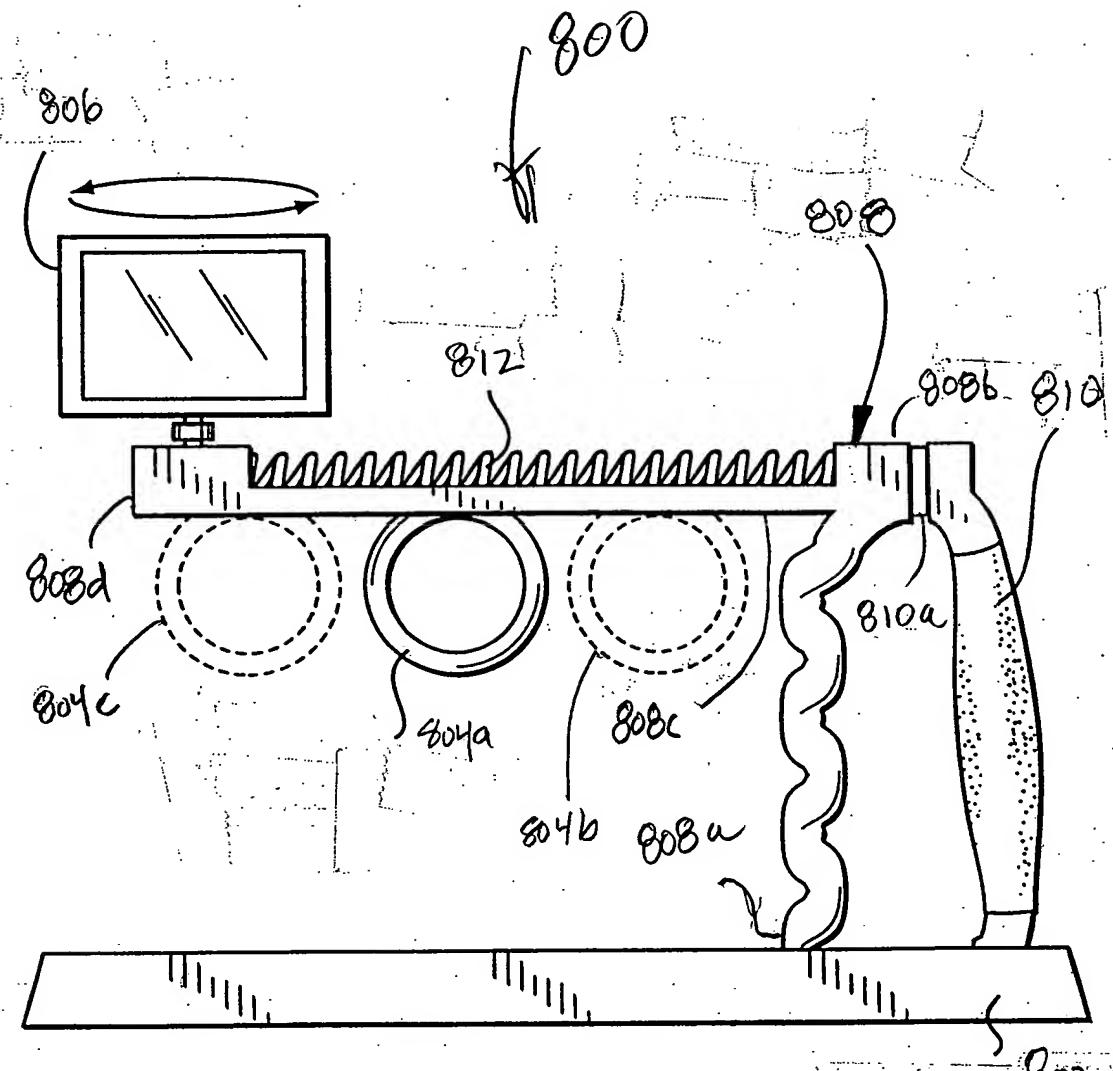


FIG. 8A

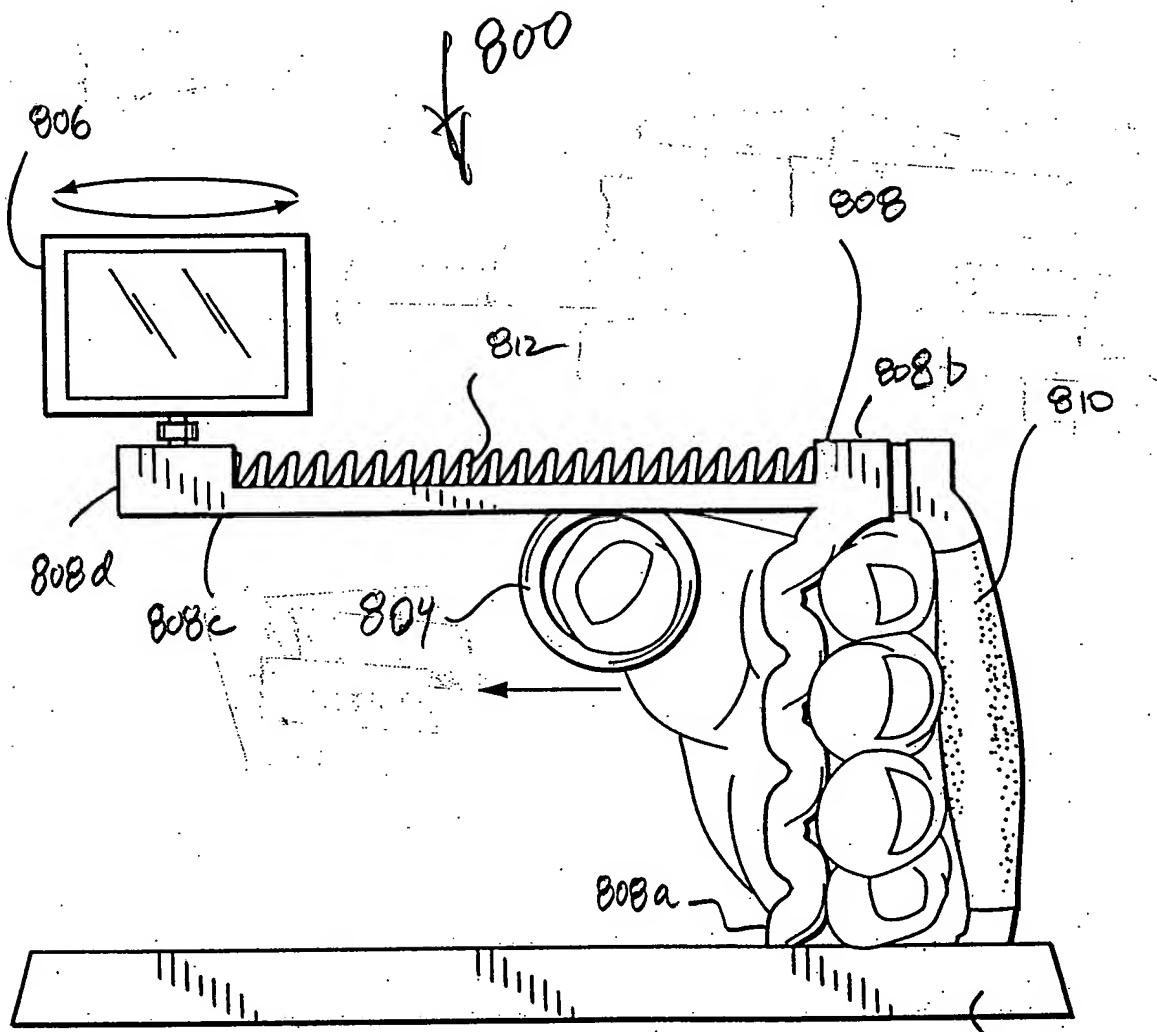


FIG. 8B

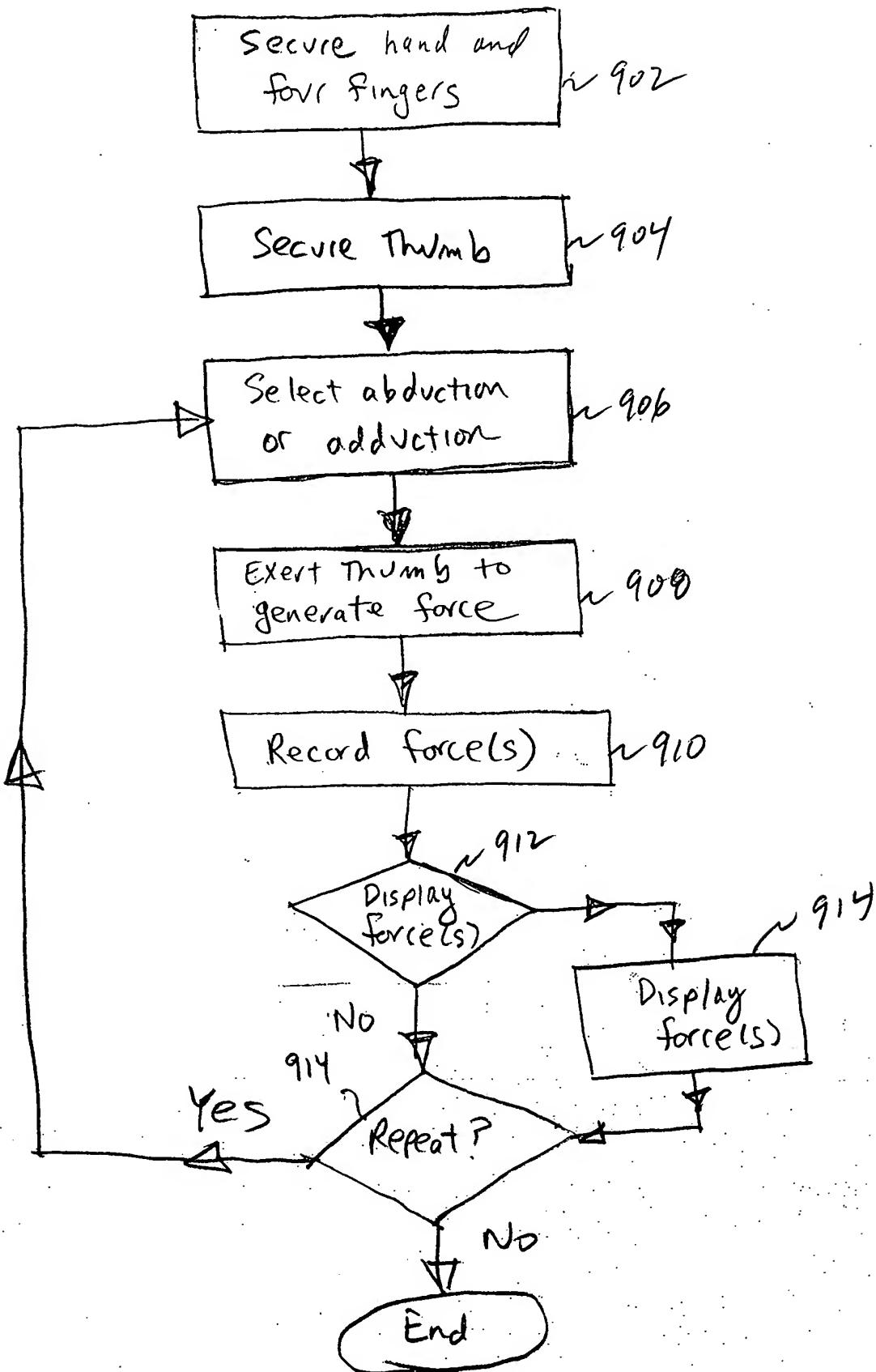
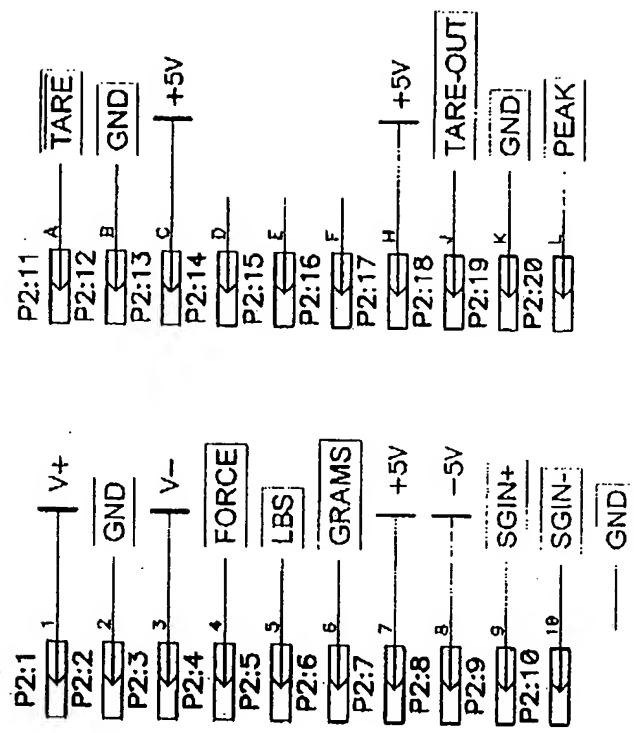


FIG. 9



GND =

Fig. 10

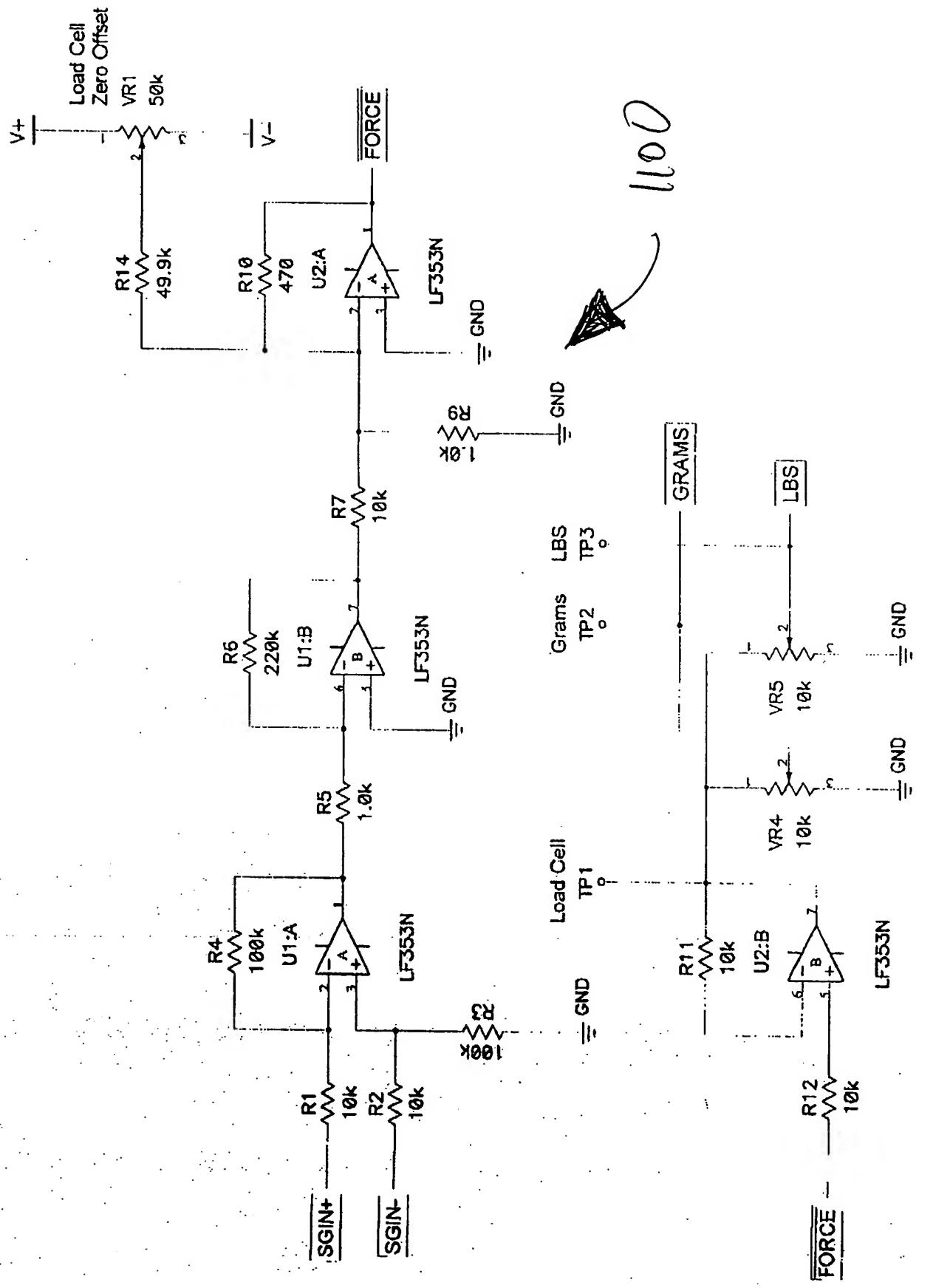


Fig. 11

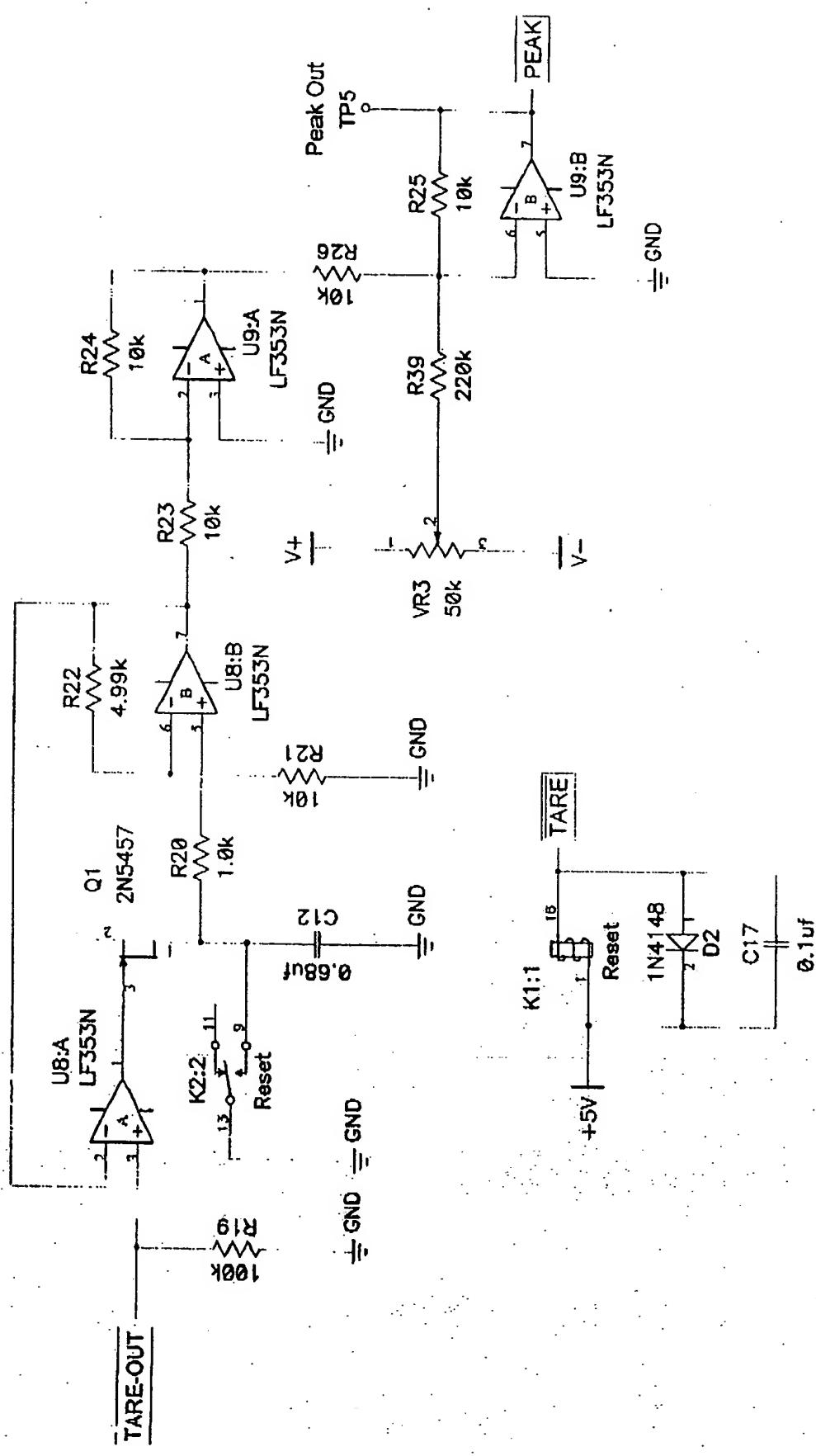


Fig. 12

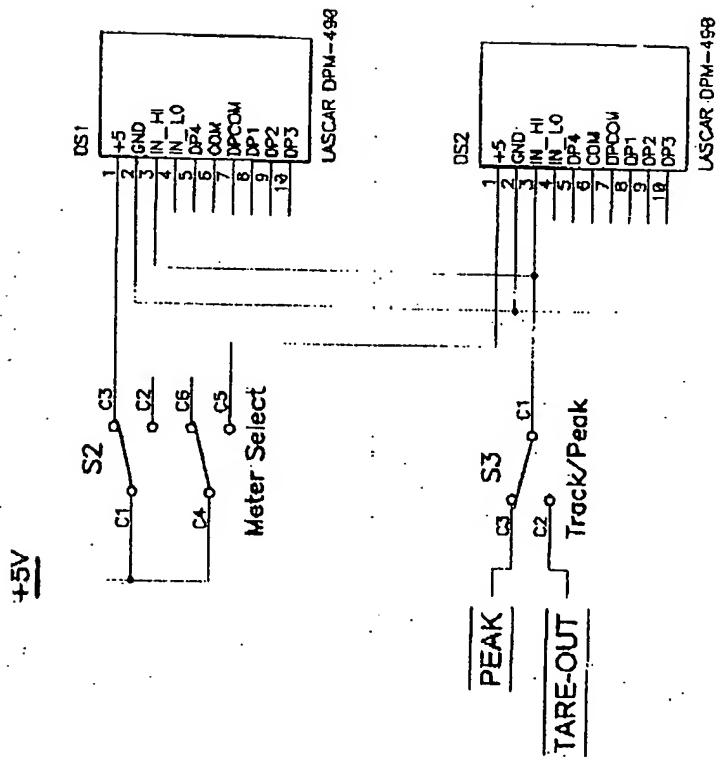


Fig. 13

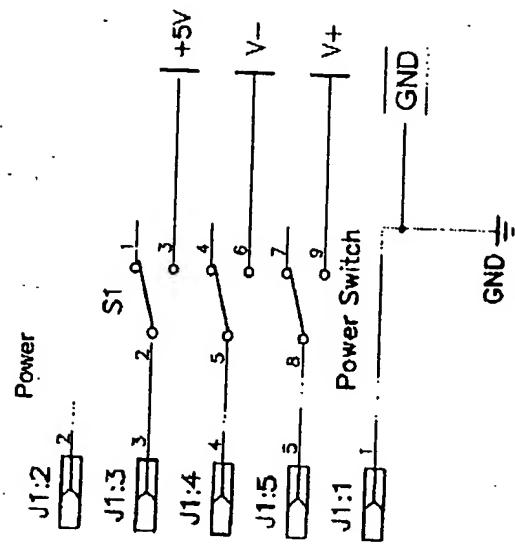


Fig. 14

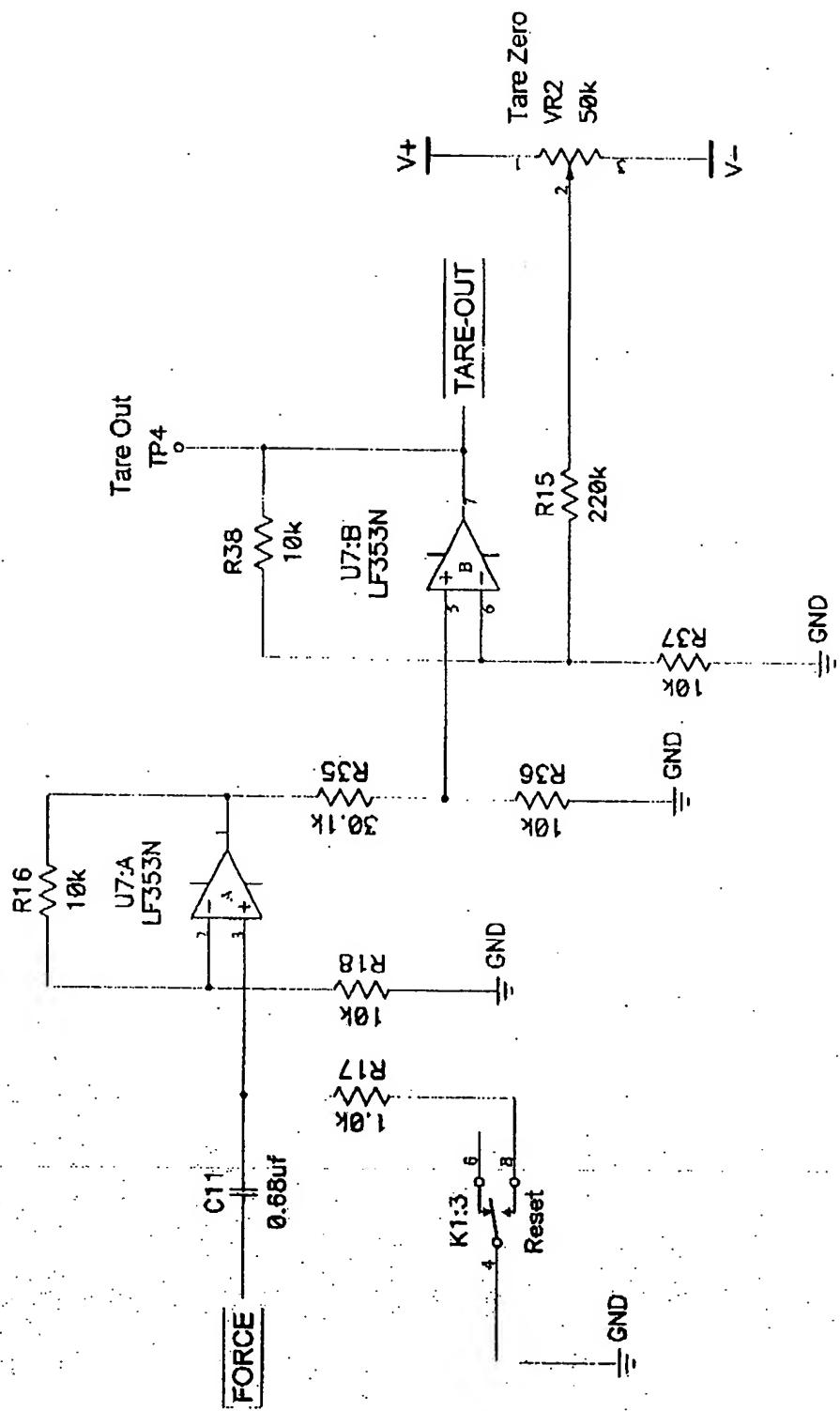


Fig. 15

**Characteristics of Subjects: Age, Weight, Sex for Right Dominant**

Age	Male-Weight						Total		
	50-99	100-124	125-149	150-174	175-199	200-224			
5 to 9	2	12	9	10	3	2	23		
10 to 14	2	3	16	5	2	22	26		
15 to 19	17	4	8	11	3	24	24		
20 to 24	8	13	2	6	11	1	21		
25 to 29	4	15	3	6	7	4	25		
30 to 34	1	8	12	4	12	5	19		
35 to 39	1	7	11	7	11	4	25		
40 to 44	1	3	9	3	3	1	19		
45 to 49	1	4	12	5	2	1	25		
50 to 54	1	2	12	7	3	1	26		
55 to 59	2	6	10	1	1	1	20		
60 to 64	3	7	9	3	1	1	23		
65 to 69	4	8	6	3	1	1	21		
Total	12	12	38	17	32	12	275		
Female-Weight									
Age	50-99	100-124	125-149	150-174	175-199	200-224	225-249	Total	Grand Total
5 to 9	2	2	2	2	2	2	2	4	4
10 to 14	3	17	4	2	2	2	2	24	47
15 to 19	8	13	2	3	2	2	2	23	45
20 to 24	4	15	6	6	1	1	1	24	50
25 to 29	1	8	12	4	6	1	1	25	49
30 to 34	1	8	10	7	4	2	2	22	43
35 to 39	1	8	9	8	2	1	1	31	56
40 to 44	4	13	15	13	2	1	1	21	40
45 to 49	8	9	15	13	13	1	1	24	49
50 to 54	4	11	6	3	2	1	1	20	46
55 to 59	5	8	6	6	3	1	1	20	40
60 to 64	5	9	7	6	7	1	1	20	43
Total	5	45	104	81	33	4	3	21	42

Fig. 16

# Joint Age Weight Abduction-Right

Age	Joint Age Weight Abduction-Right										Joint Age Weight Abduction-Right																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Male-Weight					Female-Weight					Male-Weight					Female-Weight																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
50-59	60-69	70-79	80-89	90-99	100-114	115-124	125-149	150-174	175-199	200-224	225-249	250-300	300-350	350-400	400-450	450-500	500-550	550-600	600-640	640-690	690-740	740-790	790-840	840-890	890-940	940-990	990-1040	1040-1090	1090-1140	1140-1190	1190-1240	1240-1290	1290-1340	1340-1390	1390-1440	1440-1490	1490-1540	1540-1590	1590-1640	1640-1690	1690-1740	1740-1790	1790-1840	1840-1890	1890-1940	1940-1990	1990-2040	2040-2090	2090-2140	2140-2190	2190-2240	2240-2290	2290-2340	2340-2390	2390-2440	2440-2490	2490-2540	2540-3000	3000-3500	3500-4000	4000-4500	4500-5000	5000-5500	5500-6000	6000-6400	6400-6900	6900-7400	7400-7900	7900-8400	8400-8900	8900-9400	9400-9900	9900-10400	10400-10900	10900-11400	11400-11900	11900-12400	12400-12900	12900-13400	13400-13900	13900-14400	14400-14900	14900-15400	15400-15900	15900-16400	16400-16900	16900-17400	17400-17900	17900-18400	18400-18900	18900-19400	19400-19900	19900-20400	20400-20900	20900-21400	21400-21900	21900-22400	22400-22900	22900-23400	23400-23900	23900-24400	24400-24900	24900-25400	25400-30000	30000-35000	35000-40000	40000-45000	45000-50000	50000-55000	55000-60000	60000-64000	64000-69000	69000-74000	74000-79000	79000-84000	84000-89000	89000-94000	94000-99000	99000-104000	104000-109000	109000-114000	114000-119000	119000-124000	124000-129000	129000-134000	134000-139000	139000-144000	144000-149000	149000-154000	154000-159000	159000-164000	164000-169000	169000-174000	174000-179000	179000-184000	184000-189000	189000-194000	194000-199000	199000-204000	204000-209000	209000-214000	214000-219000	219000-224000	224000-229000	229000-234000	234000-239000	239000-244000	244000-249000	249000-254000	254000-300000	300000-350000	350000-400000	400000-450000	450000-500000	500000-550000	550000-600000	600000-640000	640000-690000	690000-740000	740000-790000	790000-840000	840000-890000	890000-940000	940000-990000	990000-1040000	1040000-1090000	1090000-1140000	1140000-1190000	1190000-1240000	1240000-1290000	1290000-1340000	1340000-1390000	1390000-1440000	1440000-1490000	1490000-1540000	1540000-1590000	1590000-1640000	1640000-1690000	1690000-1740000	1740000-1790000	1790000-1840000	1840000-1890000	1890000-1940000	1940000-1990000	1990000-2040000	2040000-2090000	2090000-2140000	2140000-2190000	2190000-2240000	2240000-2290000	2290000-2340000	2340000-2390000	2390000-2440000	2440000-2490000	2490000-2540000	2540000-3000000	3000000-3500000	3500000-4000000	4000000-4500000	4500000-5000000	5000000-5500000	5500000-6000000	6000000-6400000	6400000-6900000	6900000-7400000	7400000-7900000	7900000-8400000	8400000-8900000	8900000-9400000	9400000-9900000	9900000-10400000	10400000-10900000	10900000-11400000	11400000-11900000	11900000-12400000	12400000-12900000	12900000-13400000	13400000-13900000	13900000-14400000	14400000-14900000	14900000-15400000	15400000-15900000	15900000-16400000	16400000-16900000	16900000-17400000	17400000-17900000	17900000-18400000	18400000-18900000	18900000-19400000	19400000-19900000	19900000-20400000	20400000-20900000	20900000-21400000	21400000-21900000	21900000-22400000	22400000-22900000	22900000-23400000	23400000-23900000	23900000-24400000	24400000-24900000	24900000-25400000	25400000-30000000	30000000-35000000	35000000-40000000	40000000-45000000	45000000-50000000	50000000-55000000	55000000-60000000	60000000-64000000	64000000-69000000	69000000-74000000	74000000-79000000	79000000-84000000	84000000-89000000	89000000-94000000	94000000-99000000	99000000-104000000	104000000-109000000	109000000-114000000	114000000-119000000	119000000-124000000	124000000-129000000	129000000-134000000	134000000-139000000	139000000-144000000	144000000-149000000	149000000-154000000	154000000-159000000	159000000-164000000	164000000-169000000	169000000-174000000	174000000-179000000	179000000-184000000	184000000-189000000	189000000-194000000	194000000-199000000	199000000-204000000	204000000-209000000	209000000-214000000	214000000-219000000	219000000-224000000	224000000-229000000	229000000-234000000	234000000-239000000	239000000-244000000	244000000-249000000	249000000-254000000	254000000-300000000	300000000-350000000	350000000-400000000	400000000-450000000	450000000-500000000	500000000-550000000	550000000-600000000	600000000-640000000	640000000-690000000	690000000-740000000	740000000-790000000	790000000-840000000	840000000-890000000	890000000-940000000	940000000-990000000	990000000-1040000000	1040000000-1090000000	1090000000-1140000000	1140000000-1190000000	1190000000-1240000000	1240000000-1290000000	1290000000-1340000000	1340000000-1390000000	1390000000-1440000000	1440000000-1490000000	1490000000-1540000000	1540000000-1590000000	1590000000-1640000000	1640000000-1690000000	1690000000-1740000000	1740000000-1790000000	1790000000-1840000000	1840000000-1890000000	1890000000-1940000000	1940000000-1990000000	1990000000-2040000000	2040000000-2090000000	2090000000-2140000000	2140000000-2190000000	2190000000-2240000000	2240000000-2290000000	2290000000-2340000000	2340000000-2390000000	2390000000-2440000000	2440000000-2490000000	2490000000-2540000000	2540000000-3000000000	3000000000-3500000000	3500000000-4000000000	4000000000-4500000000	4500000000-5000000000	5000000000-5500000000	5500000000-6000000000	6000000000-6400000000	6400000000-6900000000	6900000000-7400000000	7400000000-7900000000	7900000000-8400000000	8400000000-8900000000	8900000000-9400000000	9400000000-9900000000	9900000000-10400000000	10400000000-10900000000	10900000000-11400000000	11400000000-11900000000	11900000000-12400000000	12400000000-12900000000	12900000000-13400000000	13400000000-13900000000	13900000000-14400000000	14400000000-14900000000	14900000000-15400000000	15400000000-15900000000	15900000000-16400000000	16400000000-16900000000	16900000000-17400000000	17400000000-17900000000	17900000000-18400000000	18400000000-18900000000	18900000000-19400000000	19400000000-19900000000	19900000000-20400000000	20400000000-20900000000	20900000000-21400000000	21400000000-21900000000	21900000000-22400000000	22400000000-22900000000	22900000000-23400000000	23400000000-23900000000	23900000000-24400000000	24400000000-24900000000	24900000000-25400000000	25400000000-30000000000	30000000000-35000000000	35000000000-40000000000	40000000000-45000000000	45000000000-50000000000	50000000000-55000000000	55000000000-60000000000	60000000000-64000000000	64000000000-69000000000	69000000000-74000000000	74000000000-79000000000	79000000000-84000000000	84000000000-89000000000	89000000000-94000000000	94000000000-99000000000	99000000000-104000000000	104000000000-109000000000	109000000000-114000000000	114000000000-119000000000	119000000000-124000000000	124000000000-129000000000	129000000000-134000000000	134000000000-139000000000	139000000000-144000000000	144000000000-149000000000	149000000000-154000000000	154000000000-159000000000	159000000000-164000000000	164000000000-169000000000	169000000000-174000000000	174000000000-179000000000	179000000000-184000000000	184000000000-189000000000	189000000000-194000000000	194000000000-199000000000	199000000000-204000000000	204000000000-209000000000	209000000000-214000000000	214000000000-219000000000	219000000000-224000000000	224000000000-229000000000	229000000000-234000000000	234000000000-239000000000	239000000000-244000000000	244000000000-249000000000	249000000000-254000000000	254000000000-300000000000	300000000000-350000000000	350000000000-400000000000	400000000000-450000000000	450000000000-500000000000	500000000000-550000000000	550000000000-600000000000	600000000000-640000000000	640000000000-690000000000	690000000000-740000000000	740000000000-790000000000	790000000000-840000000000	840000000000-890000000000	890000000000-940000000000	940000000000-990000000000	990000000000-1040000000000	1040000000000-1090000000000	1090000000000-1140000000000	1140000000000-1190000000000	1190000000000-1240000000000	1240000000000-1290000000000	1290000000000-1340000000000	1340000000000-1390000000000	1390000000000-1440000000000	1440000000000-1490000000000	1490000000000-1540000000000	1540000000000-1590000000000	1590000000000-1640000000000	1640000000000-1690000000000	1690000000000-1740000000000	1740000000000-1790000000000	1790000000000-1840000000000	1840000000000-1890000000000	1890000000000-1940000000000	1940000000000-1990000000000	1990000000000-2040000000000	2040000000000-2090000000000	2090000000000-2140000000000	2140000000000-2190000000000	2190000000000-2240000000000	2240000000000-2290000000000	2290000000000-2340000000000	2340000000000-2390000000000	2390000000000-2440000000000	2440000000000-2490000000000	2490000000000-2540000000000	2540000000000-3000000000000	3000000000000-3500000000000	3500000000000-4000000000000	4000000000000-4500000000000	4500000000000-5000000000000	5000000000000-5500000000000	5500000000000-6000000000000	6000000000000-6400000000000	6400000000000-6900000000000	6900000000000-7400000000000	7400000000000-7900000000000	7900000000000-8400000000000	8400000000000-8900000000000	8900000000000-9400000000000	9400000000000-9900000000000	9900000000000-10400000000000	10400000000000-10900000000000	10900000000000-11400000000000	11400000000000-11900000000000	11900000000000-12400000000000	12400000000000-12900000000000	12900000000000-13400000000000	13400000000000-13900000000000	13900000000000-14400000000000	14400000000000-149000

Joint Age Weight Abduction-Left

F16.18

# Joint Age Weight Adduction-Right

Ag	Joint Age Weight Adduction-Right						Joint Age Weight Adduction-Right						
	Male-Weight			Female-Weight			Male-Weight			Female-Weight			
50-59	100-124	125-149	150-174	175-199	200-224	225-249	250-300	50-99	100-124	125-149	150-174	175-199	200-224
5 to 9													
10 to 14	11.8	12.8						10.9	10.7	11.9			
15 to 19		14.3	16.2	16.4					11.9	13.5			
20 to 24		15.2	17.4	18.5					13.2	14.4	14.0		
25 to 29			17.8	19.7	20.8				10.8	15.2	16.0		
30 to 34			17.4	17.4						12.9	16.4	16.2	
35 to 39			18.5	16.9	19.2				12.0	14.1	14.4	12.2	
40 to 44			17.1	16.0	20.9	18.0				13.7	12.9		
45 to 49			15.3	17.1	18.2					12.0	14.8		
50 to 54				16.5	17.3	15.6				13.1	13.8		
55 to 59			14.3	16.1						13.5	16.2	15.6	
60 to 64			12.9	13.8	12.4	16.3				12.0	13.0	13.3	
65 to 69			12.6	13.4	15.5	13.1				11.0	12.3	14.1	
Angle = 30°													
5 to 9													
10 to 14	11.9	13.3						11.9	11.3	12.8			
15 to 19		15.9	18.0	18.6					12.7	15.0			
20 to 24		18.0	18.4	20.7					14.9	15.1	15.2		
25 to 29			19.1	21.3	20.9				11.6	16.6	17.8		
30 to 34			19.4	18.8						14.2	17.4	17.2	
35 to 39			20.7	18.4	19.2				12.6	14.9	15.7	15.4	
40 to 44			17.5	16.2	19.9	20.4				14.5	13.7		
45 to 49			16.9	19.1	19.4					13.4	16.1		
50 to 54				18.2	18.9	16.9				15.7	15.1		
55 to 59			12.4	14.6	17.5					15.1	16.9	17.5	
60 to 64				15.6	13.6	17.1				11.9	14.9	14.7	
65 to 69			13.5	14.6	16.5	16.4				12.7	12.8	15.1	
Angle = 45°													
5 to 9													
10 to 14	13.2	14.2							12.5	13.2	14.2		
15 to 19		17.5	19.3	19.1						13.4	16.0		
20 to 24		20.3	20.5	21.7						15.8	16.7	14.9	
25 to 29			21.2	22.2	22.1					12.3	18.4	18.9	
30 to 34			20.3	20.9						15.0	19.3	15.7	
35 to 39			21.8	20.3	20.3					14.1	17.1	14.4	
40 to 44			20.7	18.1	22.1	21.2					16.8	14.6	
45 to 49			18.5	20.5	21.1						14.4	16.4	
50 to 54				20.3	21.1	19.0					15.5	15.8	
55 to 59			15.4	18.8							15.7	17.6	17.9
60 to 64			14.2	16.1	15.2	19.1					12.7	15.6	15.8
65 to 69			14.8	15.8	17.6	16.4					13.2	14.3	16.0
Angle = 60°													

Fig. 19

# Joint Age Weight Adduction-Left

Age	Male-Weight						Female-Weight						Angle = 30°	
	50-59	100-124	125-149	150-174	175-199	200-224	225-249	250-300	50-59	100-124	125-149	150-174	175-199	
5 to 9														
10 to 14	10.8	12.5	13.9	16.3	19.0				10.1	10.2	12.4			
15 to 19			15.0	16.7	17.0				11.5	12.4				
20 to 24				17.2	18.9	14.4			12.7	13.4	12.7			
25 to 29					17.3	16.8			12.1	13.9	14.6			
30 to 34					19.5	16.5	17.8		12.2	13.2	14.4	13.2		
35 to 39					14.5	15.7	18.9	17.9		12.3	12.2			
40 to 44					15.6	17.3	17.9			10.5	14.0			
45 to 49						17.2	16.3	15.3			12.7	12.7		
50 to 54						12.4	15.4				13.1	14.4	13.5	
55 to 59						11.5	13.5	11.6	16.2		11.1	12.7	12.8	
60 to 64						12.9	13.3	14.3	14.7		11.0	11.8	12.9	
65 to 69														
5 to 9														
10 to 14		12.1	13.4						11.3	10.2	12.9			
15 to 19		15.8	18.1	20.9					10.8	13.4				
20 to 24		16.3	18.3	19.8					13.7	14.4	14.1			
25 to 29			18.7	21.0	20.6				11.9	15.2	17.2			
30 to 34			17.0	18.1						13.8	16.9	18.4		
35 to 39			20.7	18.8	18.2				12.0	14.6	16.5	13.7		
40 to 44			14.2	15.8	18.5	17.8				12.5	12.1			
45 to 49			15.7	17.8	18.3					11.1	15.1			
50 to 54				18.5	17.3	16.6				15.1	13.5			
55 to 59			11.2	13.6	17.6					14.7	14.5	15.8		
60 to 64			15.1	13.2	16.5					12.1	13.9	15.1		
65 to 69			13.3	14.4	16.0	16.8				12.6	13.2	14.3		
5 to 9														
10 to 14		12.4	14.5											
15 to 19			17.1	19.2	20.3									
20 to 24			17.7	20.7	20.9									
25 to 29				20.1	22.3	21.8								
30 to 34				18.6	19.7									
35 to 39				21.3	20.2	20.3								
40 to 44				16.1	17.3	21.0	19.0							
45 to 49				17.4	20.2	20.9								
50 to 54					20.1	20.1	18.4							
55 to 59					15.3	19.2								
60 to 64					11.4	15.6	14.4	18.7						
65 to 69					14.2	15.1	17.9	17.2						

FIG. 20

## Grip Strength by Age and Weight for Male and Female Left and Right

### Male Left / Right Grip

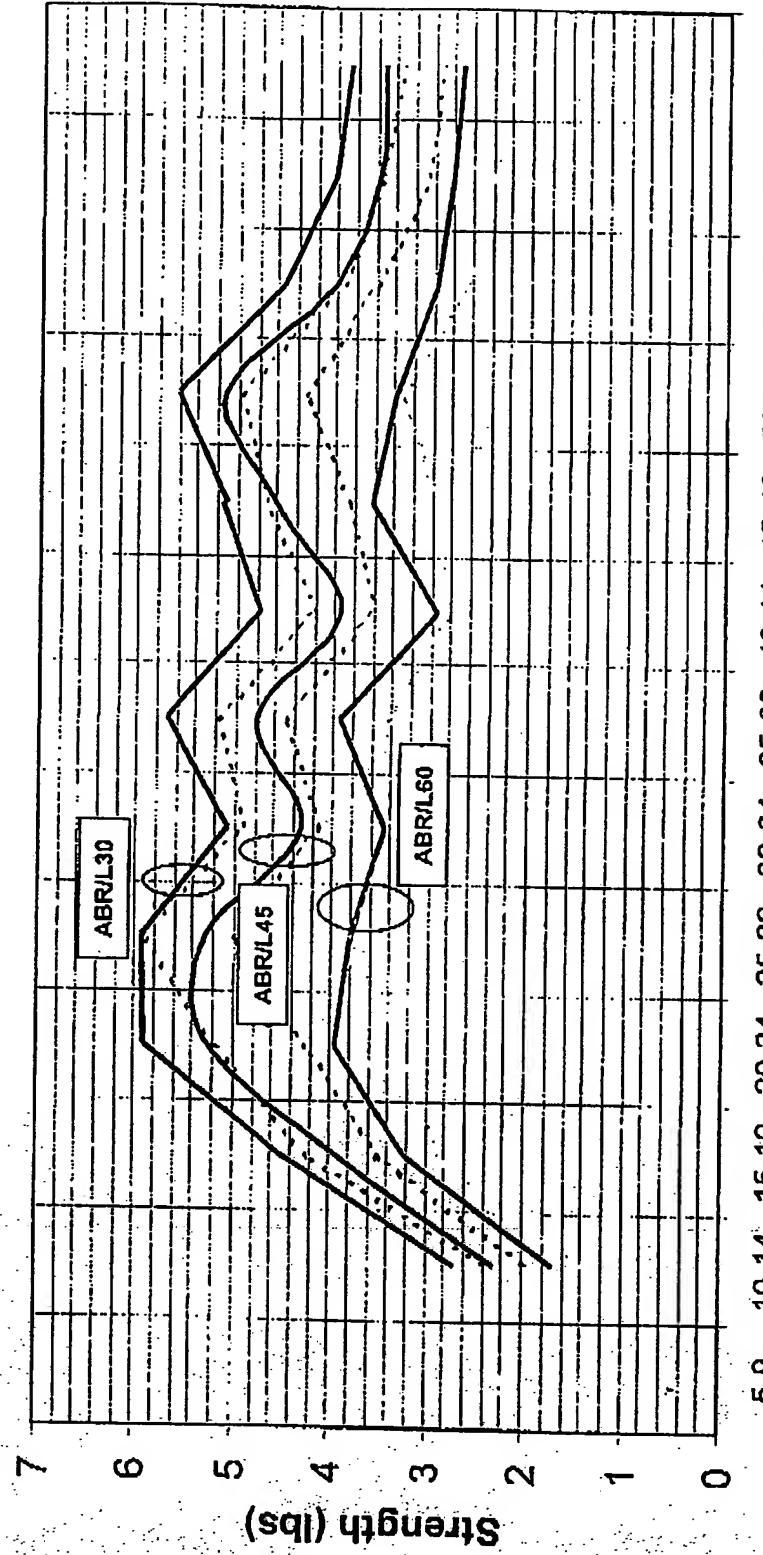
Age	Weight 50 to 99	100 to 124	125 to 149	150 to 174	175 to 199	200 to 224	225 to 249	250 to 300
10 to 14	59 / 66	68 / 70	93 / 97	101 / 104	110 / 120			
15 to 19			94 / 110	118 / 125	130 / 137			
20 to 24				114 / 117	128 / 132	129 / 137		
25 to 29				105 / 108	120 / 126			
30 to 34			80 / 91	110 / 114	117 / 126	126 / 136		
35 to 39				94 / 96	105 / 108	128 / 139	111 / 119	
40 to 44				97 / 98	96 / 103	119 / 125		
45 to 49					97 / 100	106 / 110	105 / 113	
50 to 54					98 / 101			
55 to 59					77 / 83			
60 to 64			70 / 82	81 / 86	95 / 102			
65 to 69			73 / 78	74 / 81	89 / 92	84 / 84		

### Female Left / Right Grip

Age	Weight 50 to 99	100 to 124	125 to 149	150 to 174	175 to 199	200 to 224	225 to 249	250 to 300
10 to 14	56 / 56	63 / 59	74 / 70	82 / 82				
15 to 19		66 / 60	77 / 71					
20 to 24		84 / 78	78 / 71	80 / 74				
25 to 29		58 / 51	81 / 74	83 / 77				
30 to 34		66 / 61	72 / 64	81 / 84	79 / 75			
35 to 39			65 / 62	71 / 69	81 / 80			
40 to 44			68 / 64	75 / 72				
45 to 49			66 / 65	65 / 61				
50 to 54			69 / 64	72 / 70	77 / 73			
55 to 59			58 / 54	70 / 68	71 / 66			
60 to 64			66 / 59	69 / 65	75 / 69			
65 to 69								

F16. 21

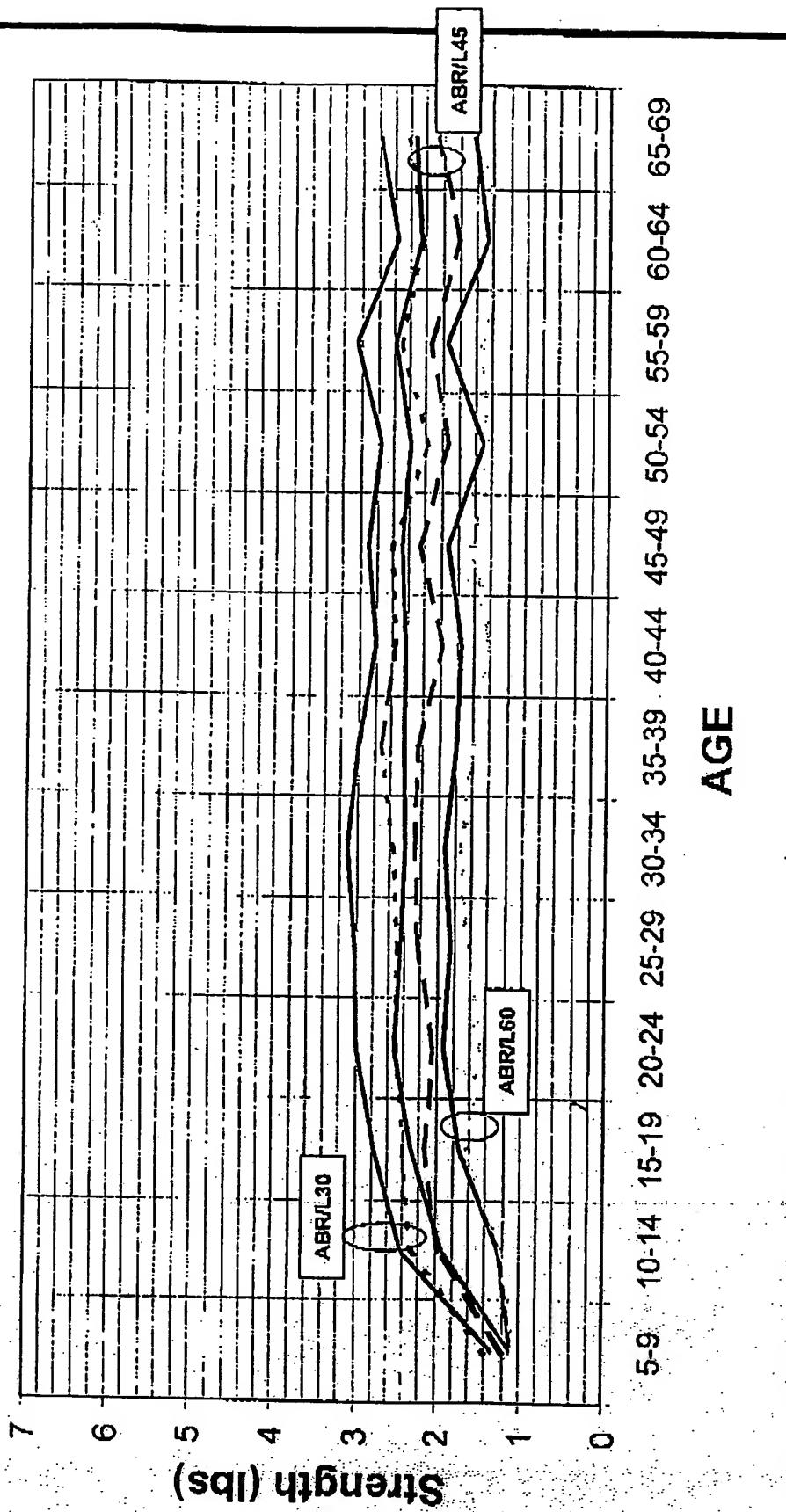
## MALE Abduction by Age Right Dominant



AGE

FIG. 22

FEMALE Abduction by Age Right Dominant



F16. 23

**MALE Abduction by Weight Right Dominant**

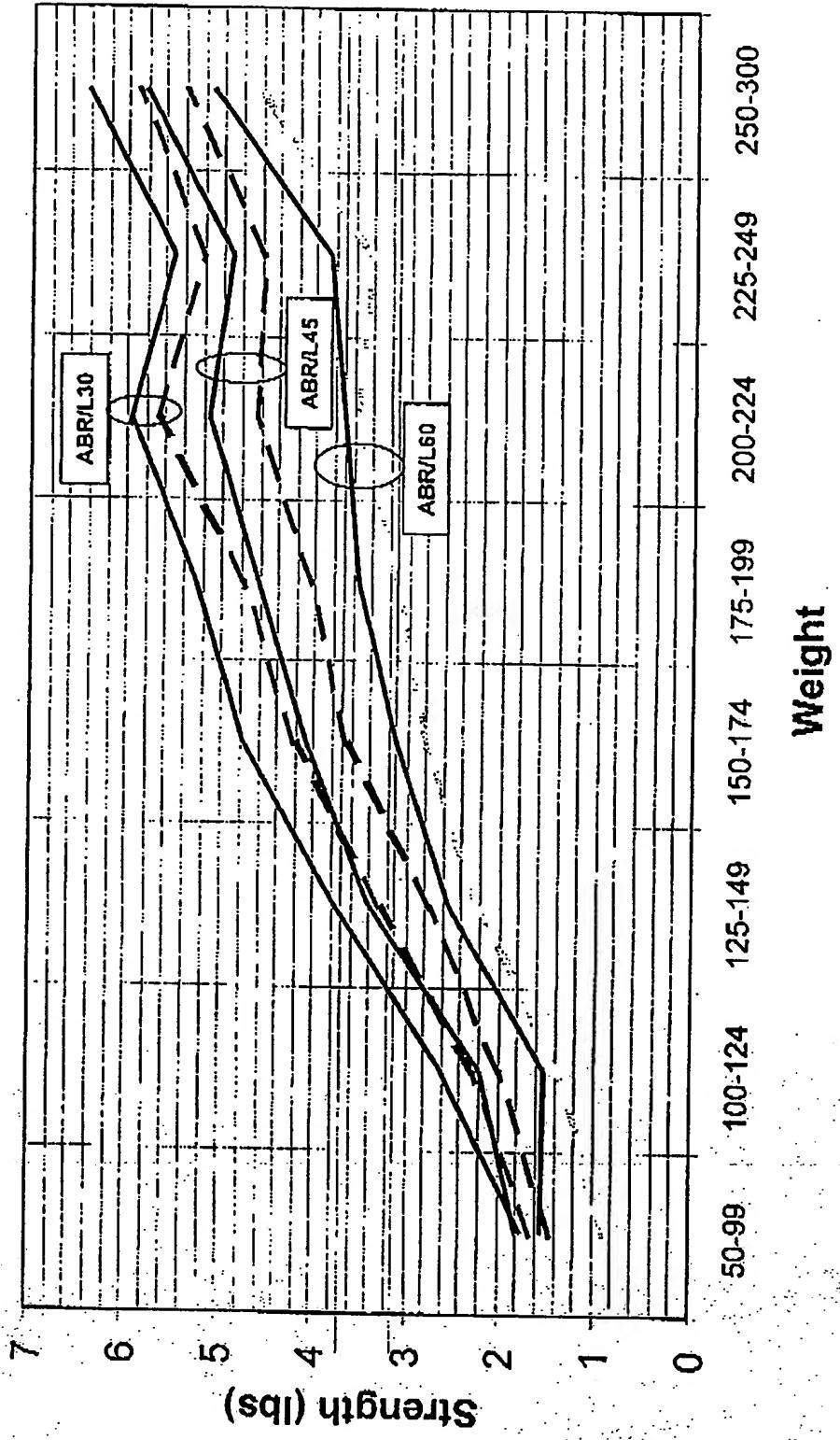
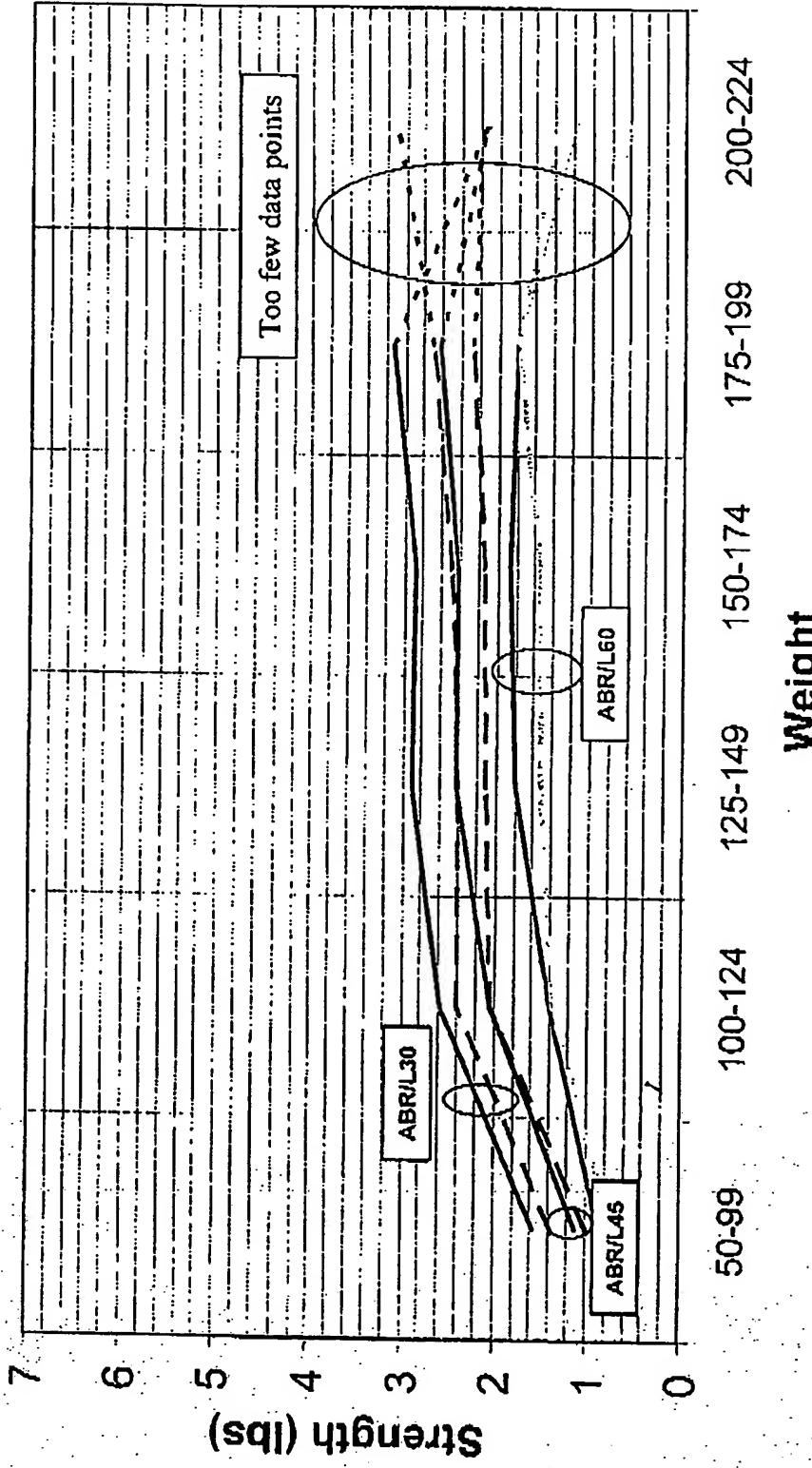


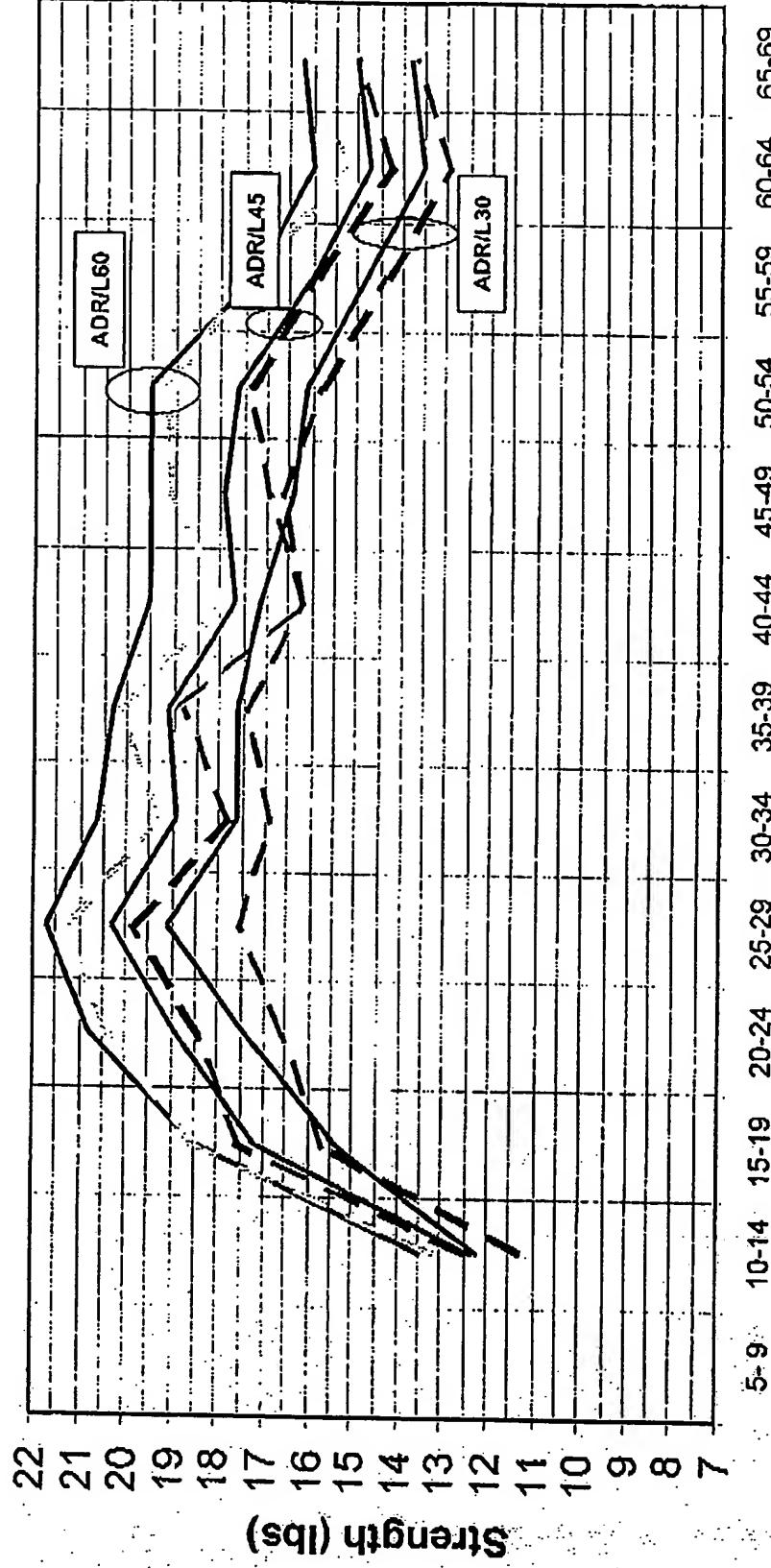
Fig. 24

**FEMALE Abduction by Weight Right Dominant**



F16. 25

### MALE Adduction by Age Right Dominant



AGE

F16.26

**FEMALE Adduction by Age Right Dominant**

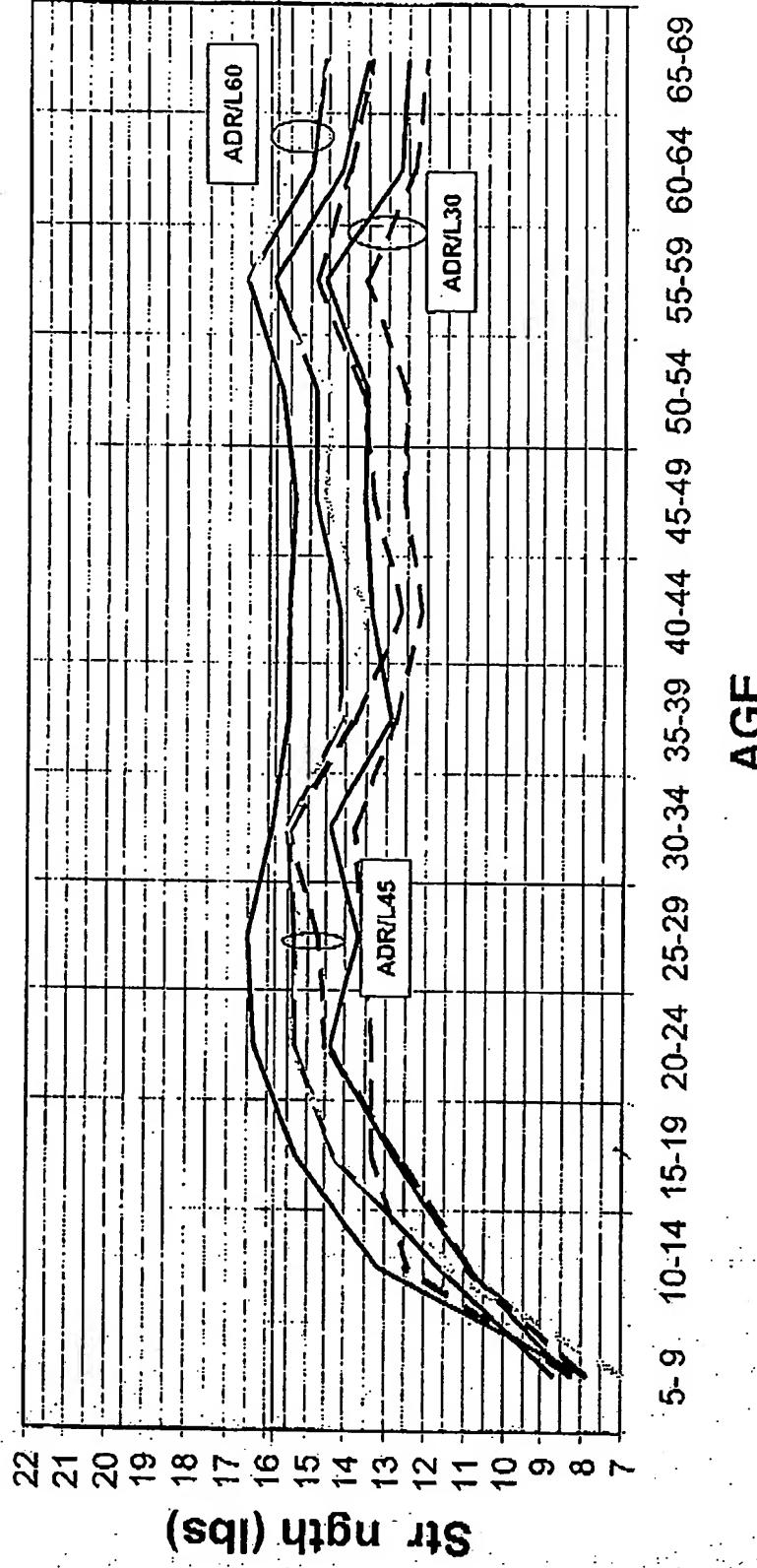


Fig. 27

**MALE Adduction by Weight Right Dominant**

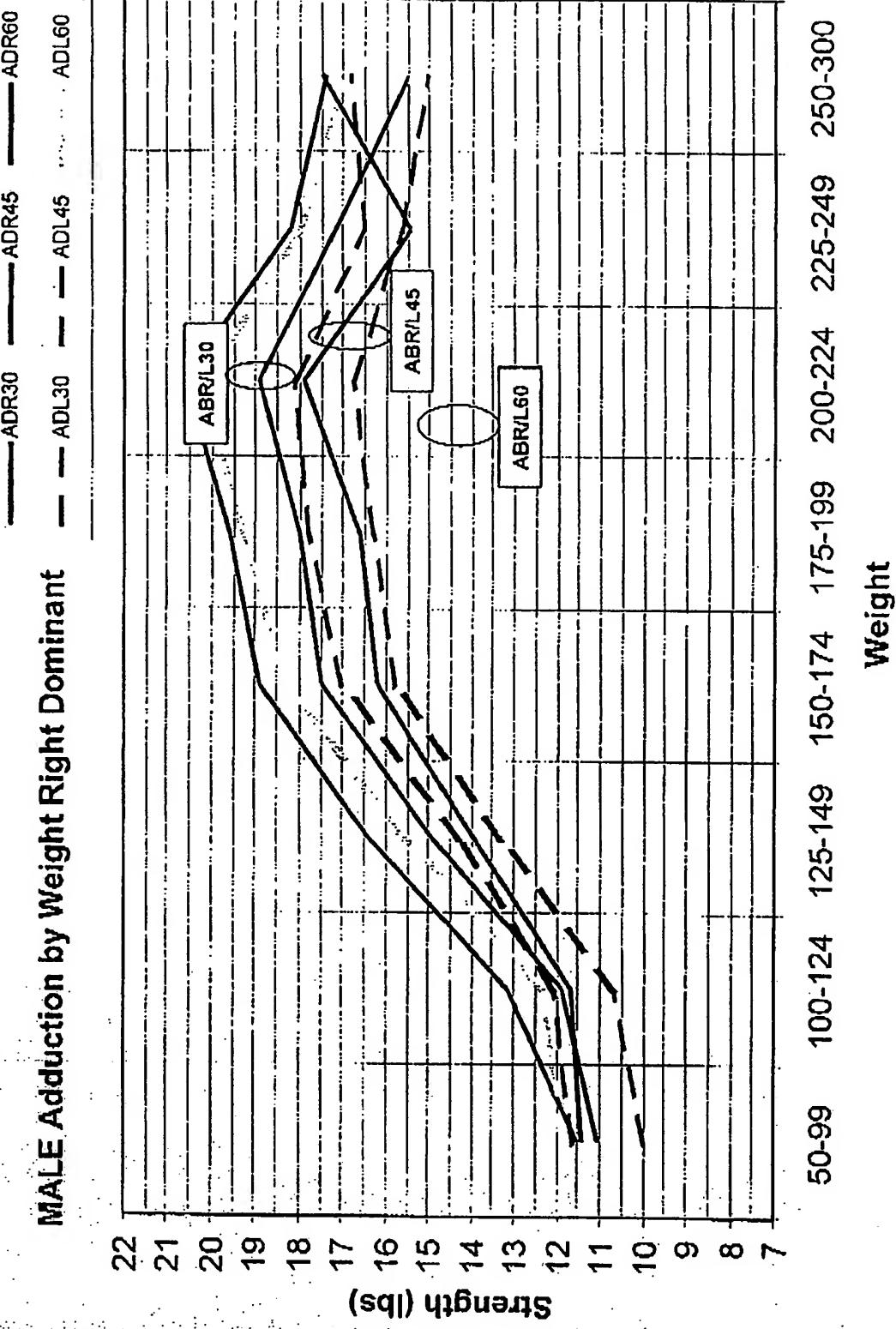


Fig. 28

**FEMALE Adduction by Weight Right Dominant**

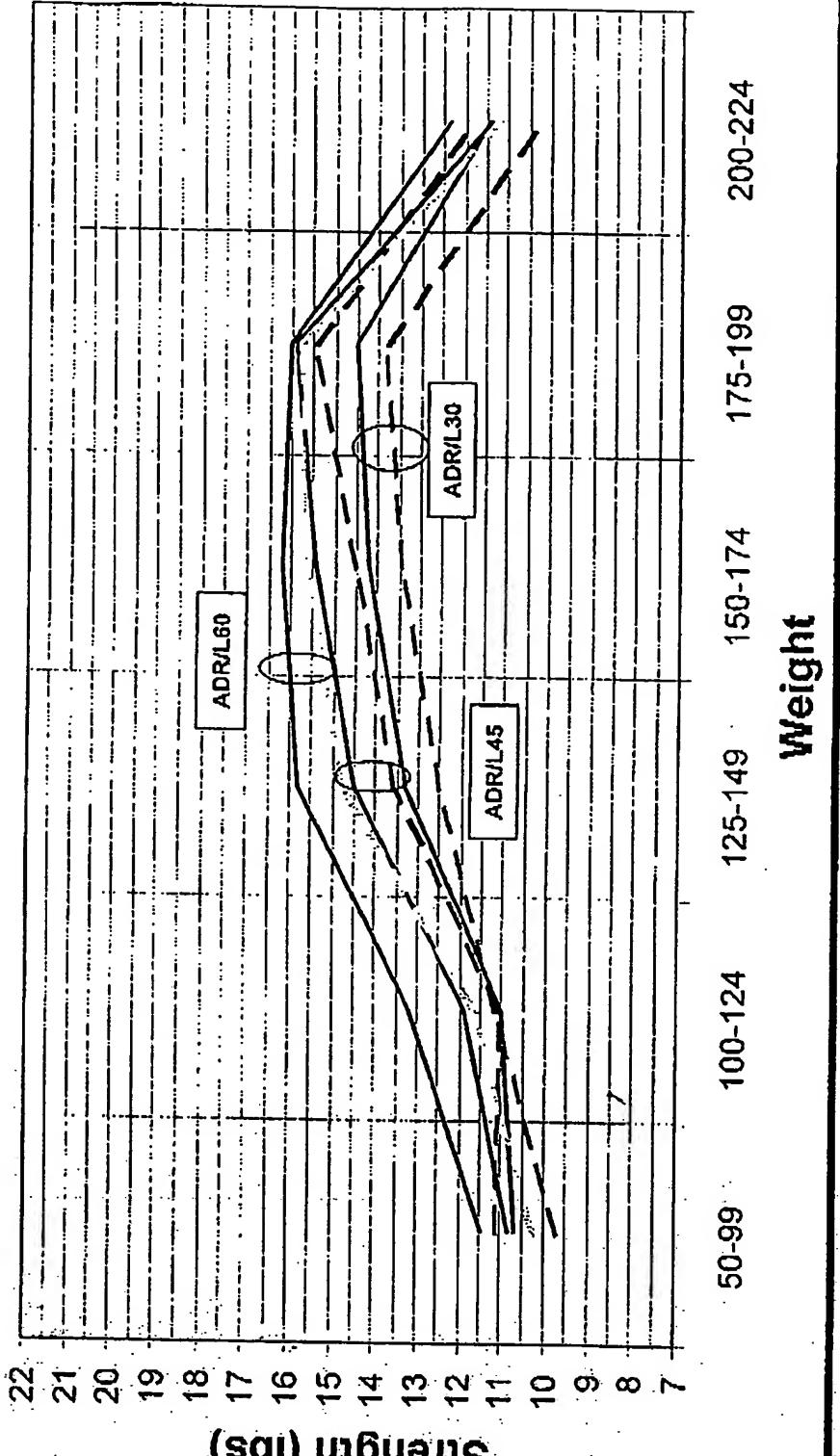


Fig. 29

## Male Grip Strength to Abduction and Adduction Left and Right

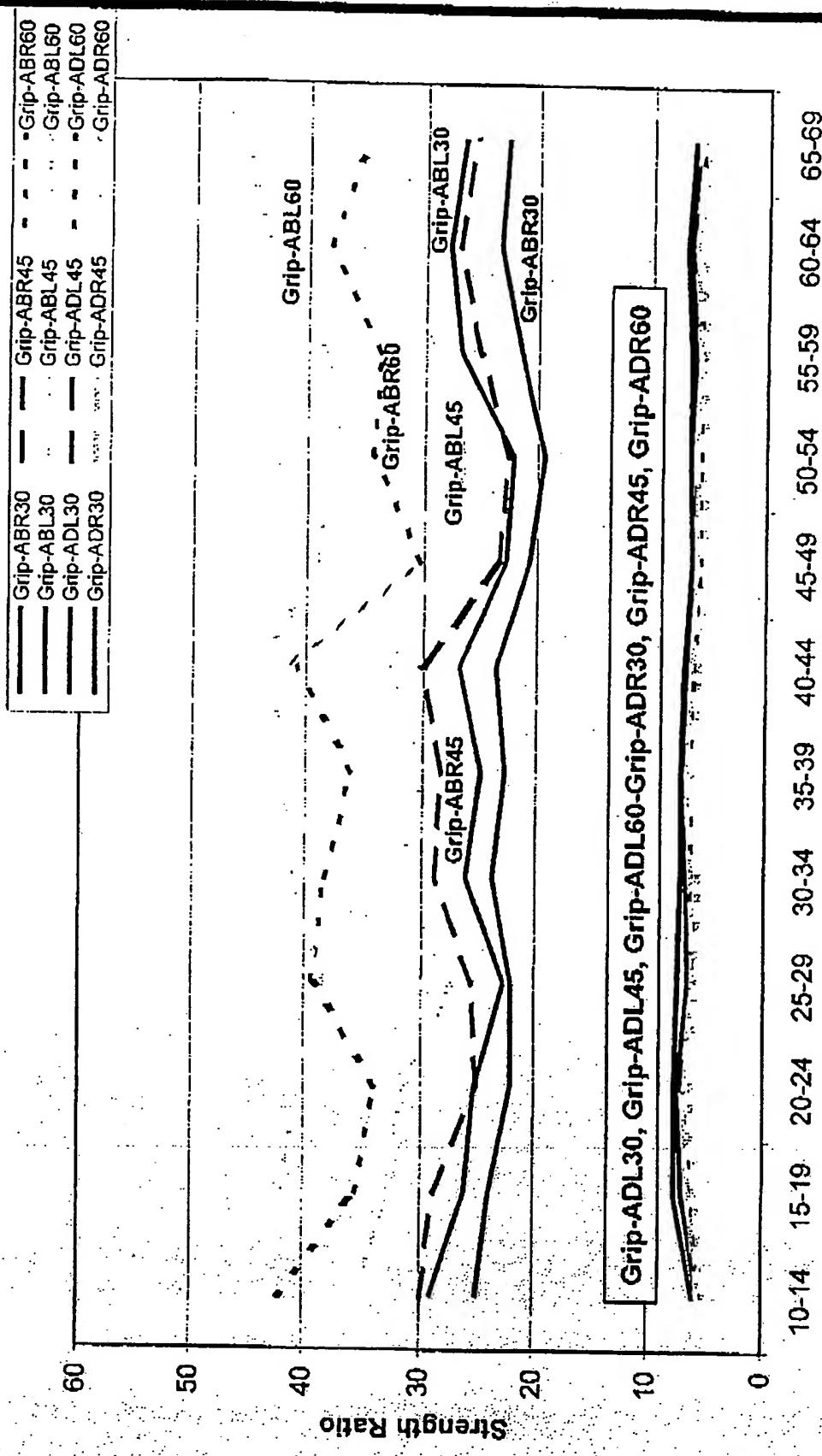


Fig. 30

### Correlation Coefficients for All Subjects

#### Males

Variables	Weight	R-Grip	L-Grip	ABR30	ABR45	ABR60	ADR30	ADR45	ADR60	ABL30	ABL45	ABL60	ADL30	ADL45	ADL60
Age	0.41	-0.16	-0.16	-0.01	0.01	-0.02	-0.11	-0.08	-0.08	-0.07	-0.02	-0.03	-0.07	-0.11	-0.08
Weight	0.46	0.48	0.5	0.46	0.46	0.35	0.35	0.35	0.35	0.5	0.46	0.42	0.42	0.33	0.33
R-Grip				0.75	0.67	0.64	0.74	0.73	0.75	0.73	0.64	0.59	0.65	0.65	0.68
L-Grip				0.7	0.69	0.64	0.73	0.72	0.74	0.72	0.69	0.64	0.68	0.68	0.71
ABR30					0.85	0.62	0.63	0.65	0.64	0.84	0.83	0.8	0.8	0.57	0.55
ABR45						0.87	0.55	0.57	0.57	0.6	0.78	0.81	0.77	0.52	0.5
ABR60							0.52	0.55	0.56	0.73	0.73	0.78	0.78	0.55	0.5
ADR30								0.86	0.86	0.6	0.56	0.5	0.72	0.73	0.74
ADR45									0.87	0.57	0.56	0.51	0.79	0.78	0.82
ADR60										0.6	0.59	0.53	0.79	0.79	0.83
ABL30											0.88	0.81	0.57	0.61	0.6
ABL45												0.87	0.55	0.55	0.57
ABL60													0.51	0.49	0.5
ADL30													0.86	0.82	0.82
ADL45														0.88	0.88

#### Females

Variables	Weight	R-Grip	L-Grip	ABR30	ABR45	ABR60	ADR30	ADR45	ADR60	ABL30	ABL45	ABL60	ADL30	ADL45	ADL60
Age	0.52	-0.04	-0.01	0.01	0.07	0	0.07	0.08	0.07	0.03	0.01	0.02	0.06	0.13	0.19
Weight	0.35	0.37	0.23	0.26	0.2	0.28	0.32	0.29	0.21	0.17	0.22	0.26	0.33	0.31	
R-Grip			0.58	0.55	0.51	0.56	0.62	0.62	0.42	0.4	0.39	0.49	0.52	0.55	
L-Grip			0.49	0.45	0.41	0.53	0.58	0.57	0.49	0.46	0.41	0.56	0.58	0.58	
ABR30				0.73	0.41	0.42	0.48	0.62	0.58	0.56	0.57	0.31	0.31	0.34	
ABR45					0.81	0.35	0.38	0.43	0.56	0.56	0.57	0.31	0.31	0.34	
ABR60						0.81	0.32	0.36	0.51	0.51	0.57	0.3	0.31	0.34	
ADR30							0.85	0.32	0.3	0.23	0.23	0.23	0.23	0.23	
ADR45								0.88	0.32	0.3	0.23	0.23	0.23	0.23	
ADR60									0.88	0.3	0.31	0.26	0.26	0.26	
ABL30										0.36	0.35	0.26	0.72	0.72	0.74
ABL45											0.82	0.63	0.4	0.4	0.4
ABL60												0.77	0.39	0.38	0.41
ADL30												0.3	0.29	0.31	
ADL45													0.88	0.88	0.88

FIG. 31